TECHNICAL SPECIFICATION

System Type	Automated, Discrete, Random Access, Patient Prioritized, Clinical Chemistry Analyzer
Throughput	400 photometric tests/hr & 640 tests per Hour with ISE (Optional)
Programmable Parameters	Unlimited photometric tests & calculation items, serum Indices 3/4 ISE tests
Analytical Methods	1 point, 2 point, Rate A, Rate B
Sample Type	Serum, Plasma, Urine, CSF, HbA1c using Whole Blood*
Photometer	Monochromatic and Bi-chromatic Measurement. Multi-wavelength diffraction grating with 12 wavelengths 340-750nm (340, 376, 415, 450, 480, 505, 546, 570, 600, 660, 700 & 750 nm)
O.D. Range	0-3.0 Absorbance
Sample Disc	82 positions, all positions open for samples, STAT samples, calibrators(standards), controls & ISE solutions
Sample Pipetting	2-70 µl in steps of 0.1 µl
Probes	Dedicated sample probe and 2 probes for Reagents Capacitance based liquid level sensing and VOD. Clot detection for sample Probe
Sample Container	Can hold primary tubes and sample cups.
Reagent tray	56 positions. 28 Positions each for 20 ML and 50 ML bottles
Reagent Pipetting	10-300 µl adjustable in 1 µl step.
Barcode Reader	Both for sample and reagent trays (Optional)
Reaction Tray	72 permanent Hard Glass Cuvettes maintained at 37°C ±0.2°
Reading Volume	180 µl
Quality Control	Levey Jennings Quality Control Program and Twin Plot, Q. C. Rules
Light source	Halogen Lamp 12 V/ 20 W
Detector	Static Silicon Photodiodes
Water Consumption	Up to 13.5 ltrs per hour
Hibernate	Enhances Lamp life and Pump life
System Interface	RS 232 Bidirectional for PC Interface Pentium IV or Higher
Power Requirement	AC 110 V ±10% Hz and 60 ±1 Hz or AC 220 V ±10 % Hz and 50±1 Hz (Factory set) 800 VA Excluding PC ,Printer Monitor
Dimensions	Approximately 910 mm (w) x 780 mm (D) x 1160 mm(H)
Weight	Approximately 200 Kg.

* Using onboard lyse features supported by XL 640

* Specifications subject to change without prior notice

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CE

ver 1.0/2015

XL-640

Fully Automatic Clinical Chemistry Analyzer

Erba Mannheim

Clinical Chemistry Analysis Easily, Quickly, Efficiently

XL640

Available automation of analysis

DISPENSING OF SAMPLES AND REAGENTS

- Sample volume: 2-70µl (0.1 µl step)
- Reagent volume: R1 50-300 ul (1 µl step)
  R2 10-300 ul (1 µl step)
- 3 dispensing probes (sample, R1, R2) equipped with liquid -level sensor and crash detector
- Auto-dilution of samples and calibrators
- Clot detection

ECONOMY

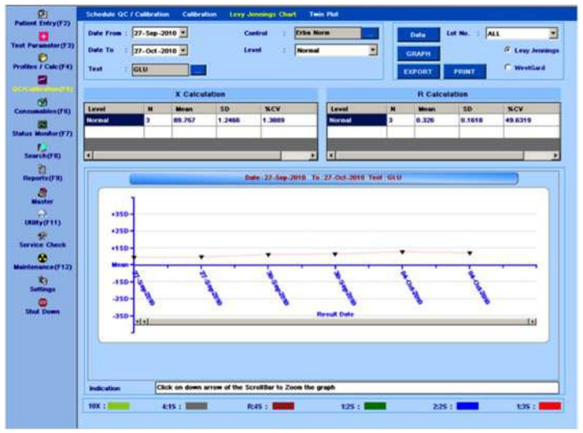
- Minimum reaction volume: 180 µl
- Reusable reaction cuvettes

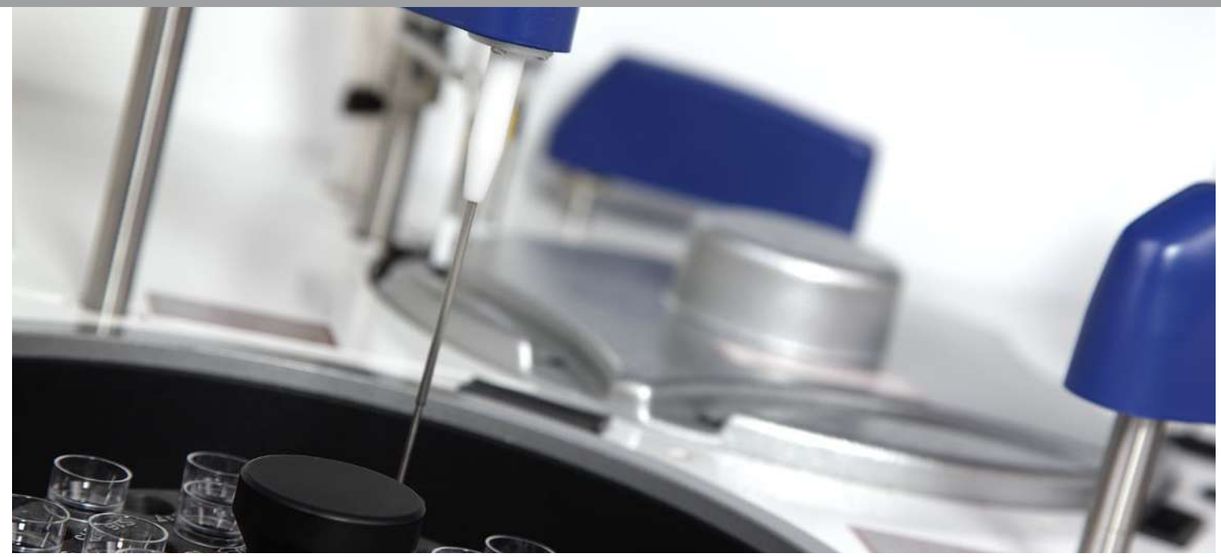
MIXING SYSTEM

- 2 independent stirrers
- 3 user selectable mixing speeds

QUALITY CONTROL

- 4 levels of control material can be used
- Levey-Jennings graphs
- Twin Plot diagrams for monitoring of systematic and random error





REACTION UNIT WITH WASH STATION

- 72 reusable hard glass cuvettes
- Possibility of replacement of individual cuvette
- Wash station – cuvette rinsing and drying in eight-step procedure
- Auto - maintenance and Automatic cuvette blank measurement before analysis

SAMPLE TRAY

- 82 positions for samples, blanks, standards, calibrators, controls and ISE solutions
- Primary tubes 5, 7 and 10 ml, vacuum system tubes and cups
- STAT sample with priority in any position
- Additional tray for 82 samples included

REAGENT TRAY

- 56 positions, 20 ml, 50 ml reagent containers, 5 ml tube with adaptor
- Reagent compartment with Peltier/air cooler (8-12°C)
- Option to use one reagent for several test simultaneously

SOFTWARE

- Convenient user interface
- Connection to LIS
- Programmable auto-start from sleep mode including automatic daily maintenance
- Statistical methods of processing results
- Data export in selected format

MEASUREMENT MONITORING

- Colour indication of sample analysis
- Possibility of monitoring the reaction in real time
- Reagent volume monitoring
- Informative reports on ongoing analyzer status